

```

<?xml version="1.0"?>
<!ELEMENT query (reaction, reaction, query?)>
<!ATTLIST query question CDATA #REQUIRED>
<!ELEMENT reaction (setpoints | query)>
<!ELEMENT setpoints EMPTY>
<!ATTLIST setpoints points NMTOKEN #REQUIRED>

```

Fig. 1

```

<?xml version="1.0"?>
<!DOCTYPE query SYSTEM "query.dtd">
<query question="Is Paris the Capital of France?">
  <setpoints points=10>
    <query question="Are you sure?">
      <setpoints points=0>
        <setpoints points=1>

```

</query>  
</query>

Fig. 2

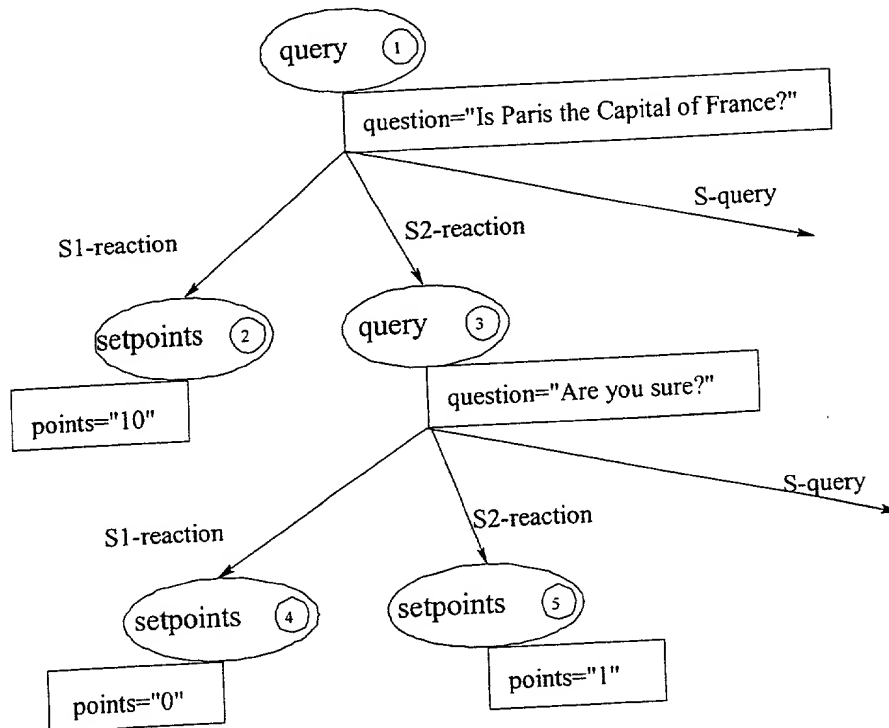


Fig. 3

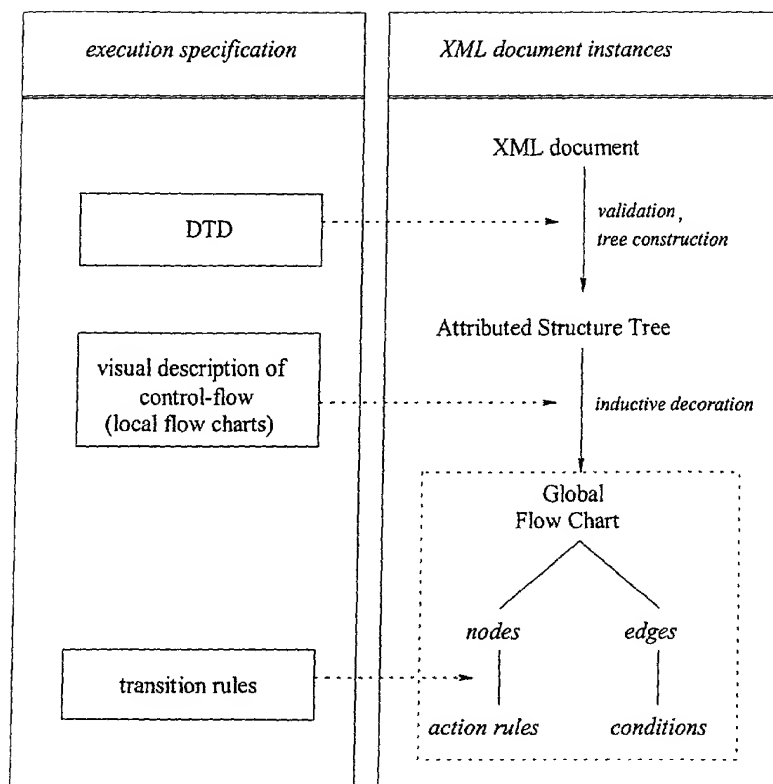


Fig. 4

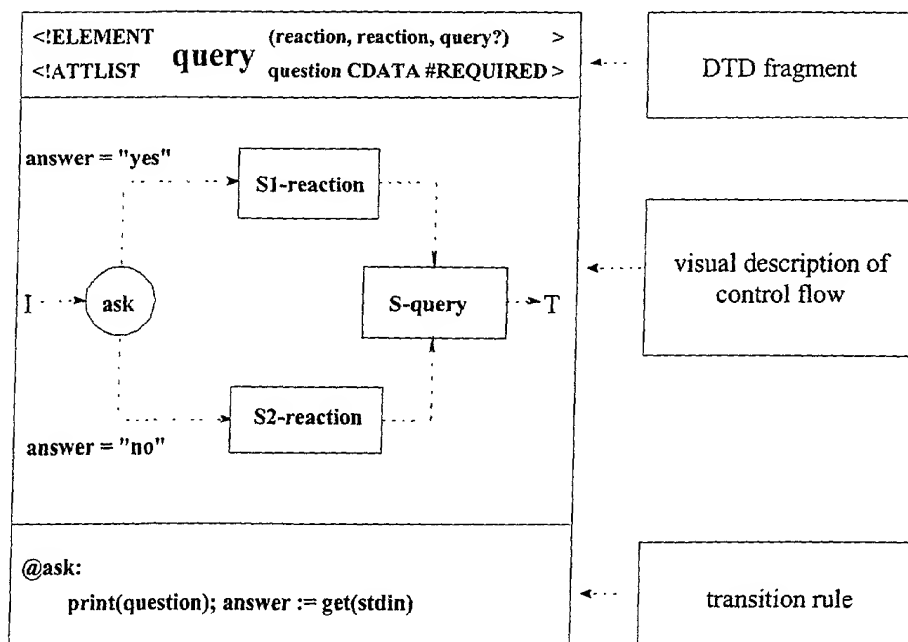


Fig. 5

Fig 69

<!ELEMENT	reaction	(setpoints   query)	>
<!ATTLIST			>

Fig 66

<!ELEMENT	setpoints		>
<!ATTLIST		points NMTOKEN #REQUIRED	
<p>I ..... <b>set</b> ..... T</p>			
<p><b>@set:</b>  <b>PointCounter := PointCounter + points</b></p>			

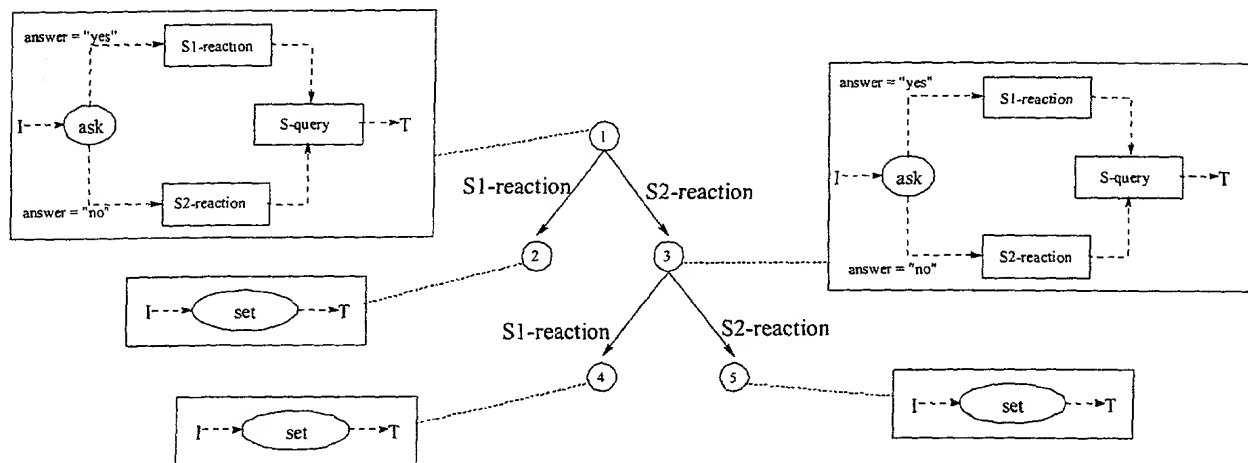


Fig. 7

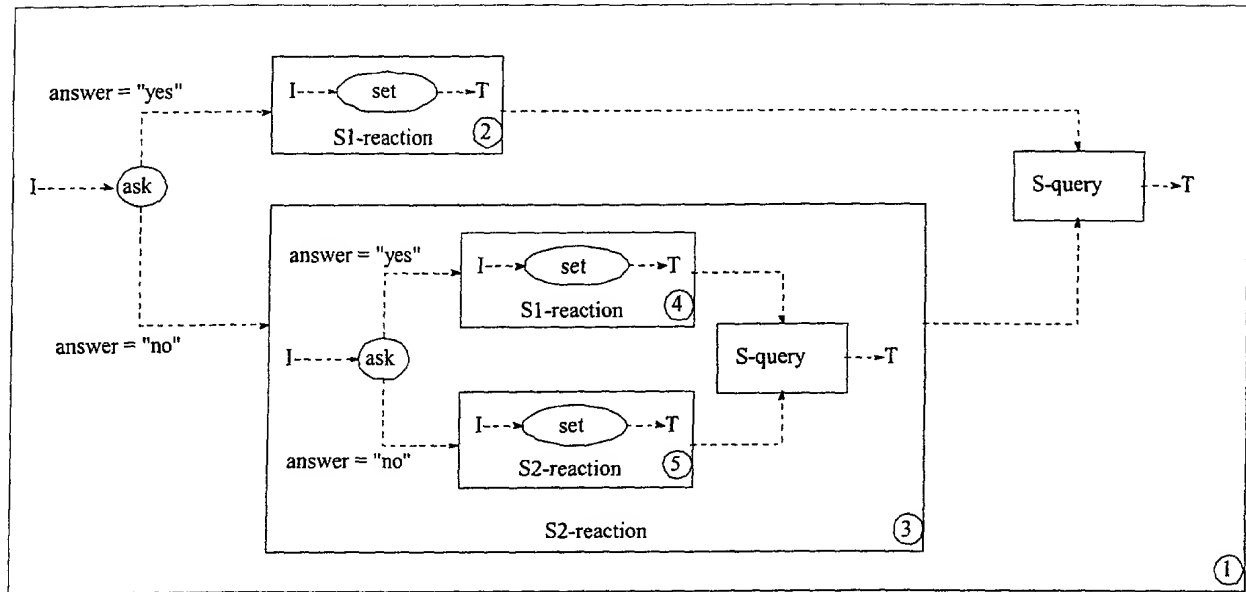


Fig. 8

```

<!element module (derived*, expression?, state*, module*)>
    <!attlist module      name CDATA #REQUIRED
                      number CDATA "1">
<!element derived (argument*, expression)>
<!attlist derived name CDATA>
<!element argument EMPTY>
<!attlist argument name CDATA>
<!element state (action*, transition*)>
<!attlist state name CDATA>
<!element transition (expression, path)>
<!element path (component?)>
<!attlist path state CDATA "initial">
<!element component (component?)>
    <!attlist component      name CDATA #REQUIRED
                      number CDATA "1">
<!element expression (path | self | src | trg | evalattr | getfirst |
                      getnext | parent | root | apply | external | constant>
<!element action (setattr | ifthen | forall | external)>
<!element src EMPTY>
<!element trg EMPTY>
<!element self EMPTY>
<!element evalattr (expression?)>
<!attlist evalattr attribute CDATA #REQUIRED>
<!element getfirst (expression?)>
<!attlist getfirst attribute CDATA #REQUIRED>
<!element getnext (expression?)>
<!element parent (expression?)>
<!element root EMPTY>
<!element apply (expression, expression?)>
<!attlist apply op CDATA #REQUIRED>
<!element external (expression*)>
<!attlist external name CDATA
                      language CDATA >
<!element constant EMPTY>
<!attlist constant value CDATA #REQUIRED>
<!element setAttr (expression?, expression)>
<!attlist setAttr attribute CDATA #REQUIRED>
<!element ifthenelse (expression, action*)>
<!element forall (action*)>
<!attlist forall range CDATA "all-elements"
                      variable CDATA>

```

Fig. 9

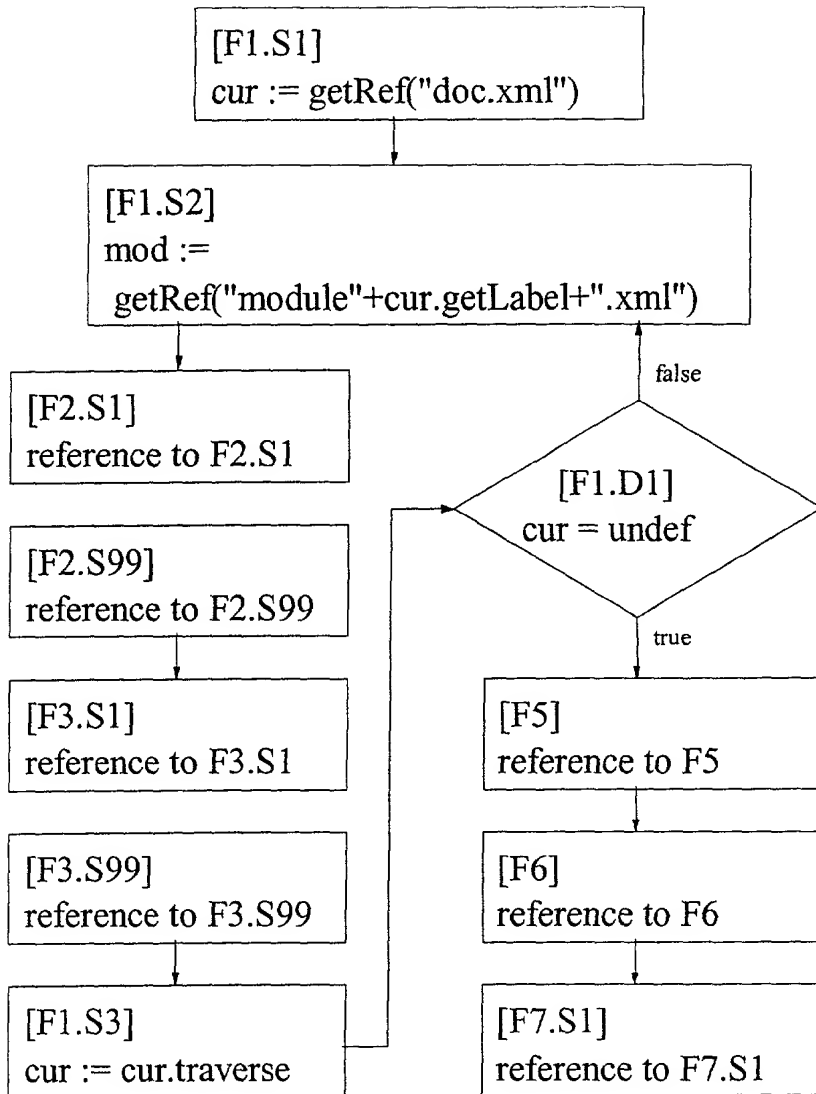


Fig. 10 7

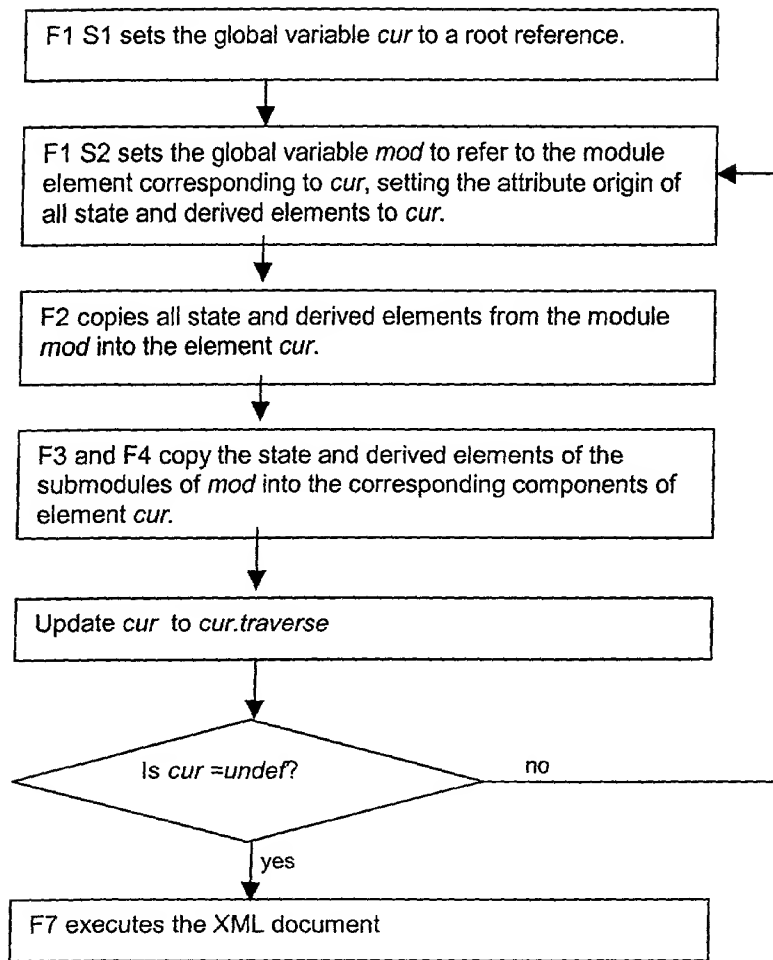


Fig. 10b

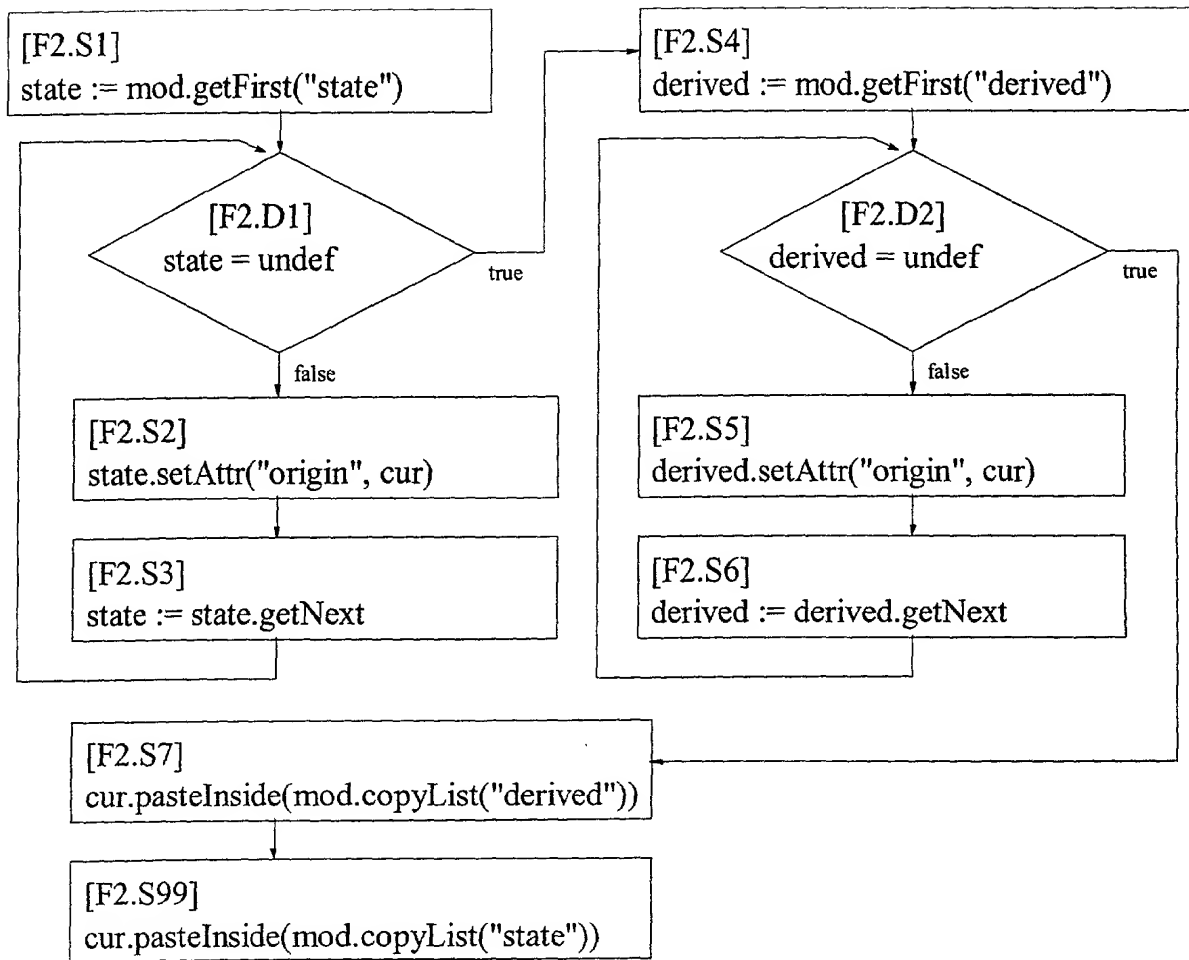


Fig. 11



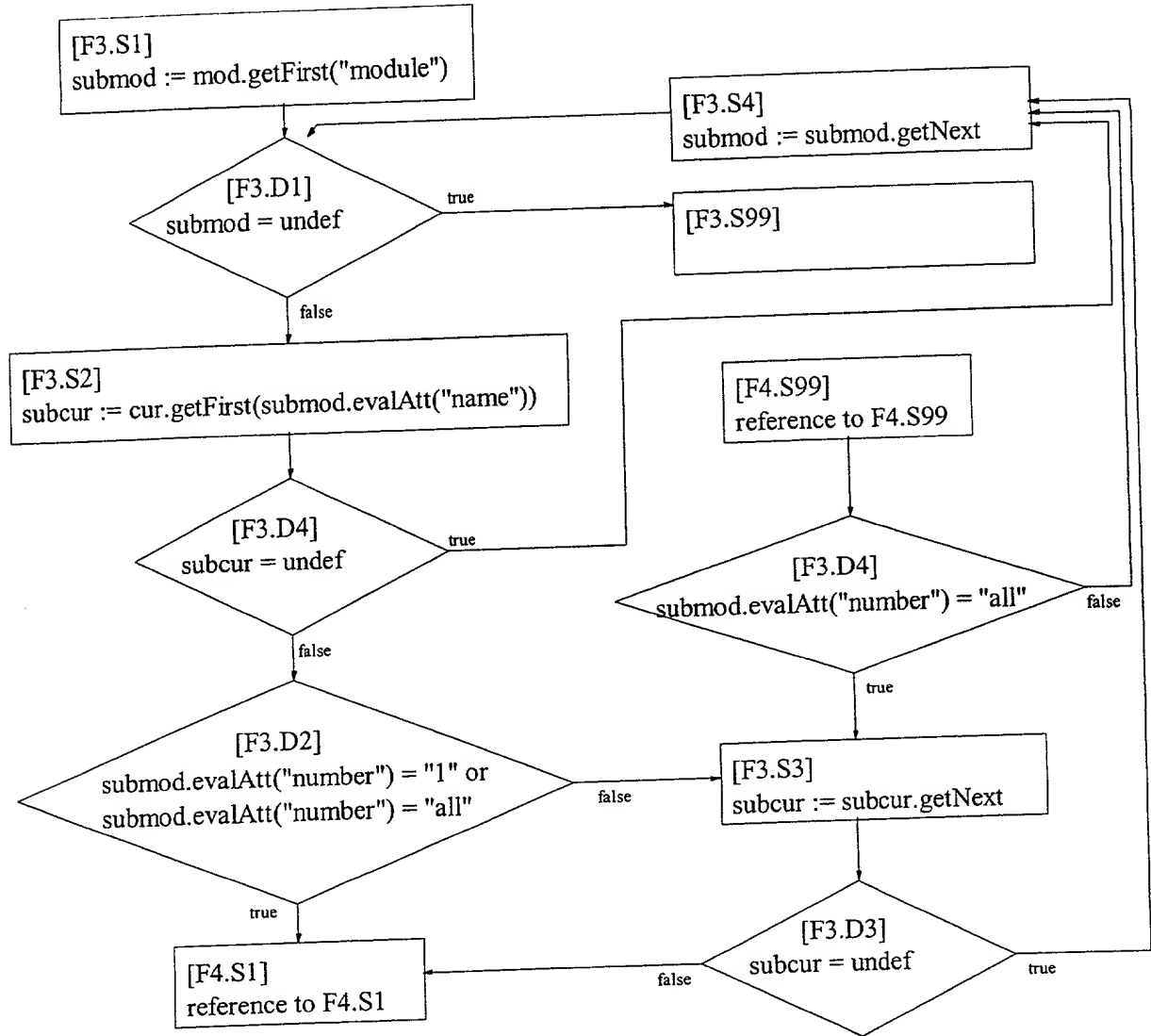


Fig. 12

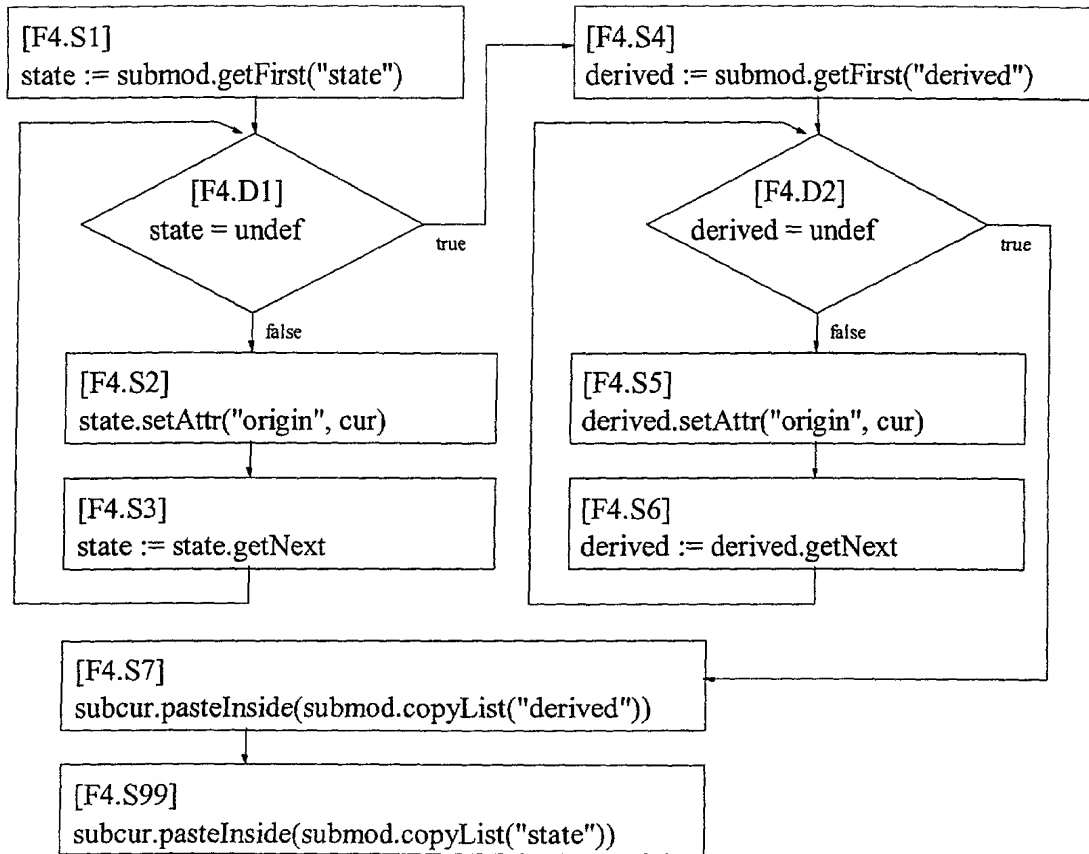


Fig. 13

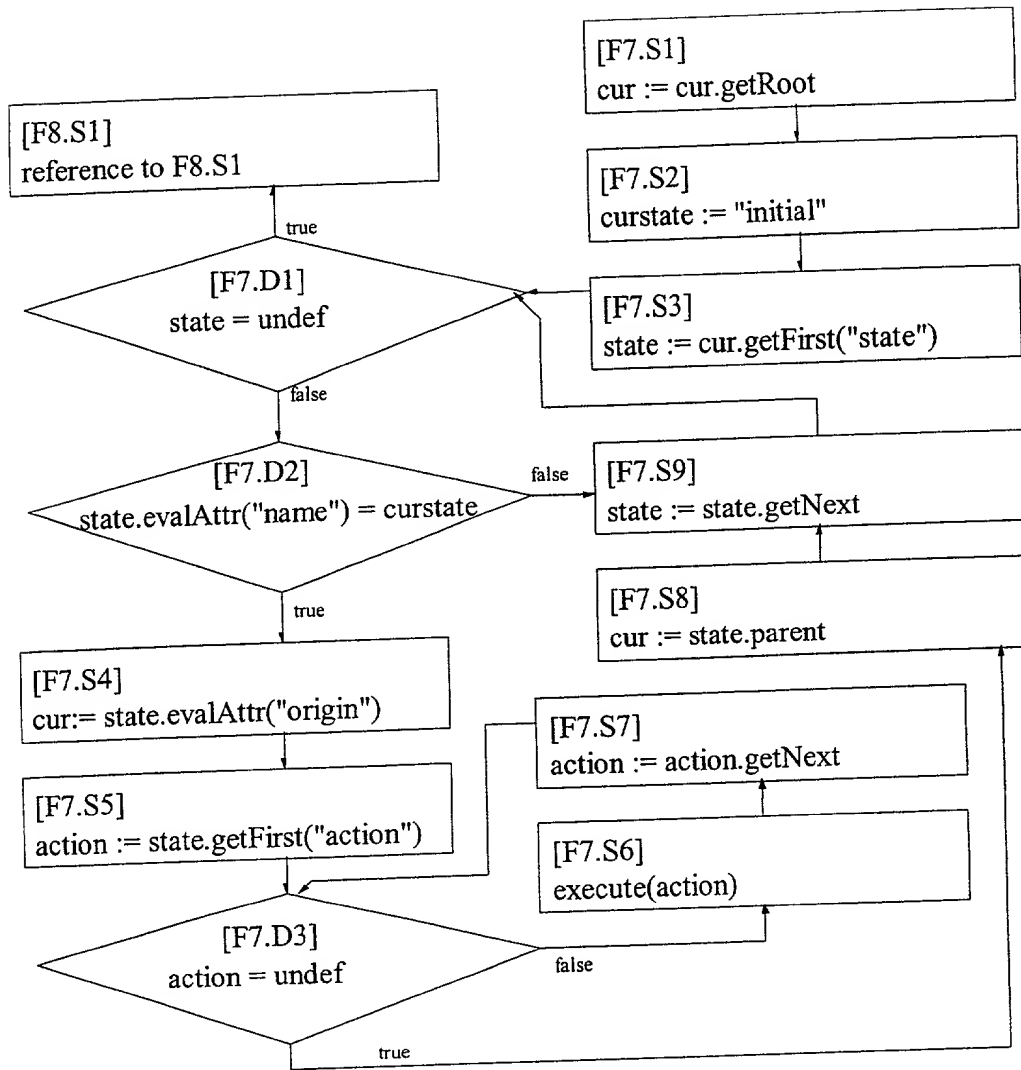


Fig. 14

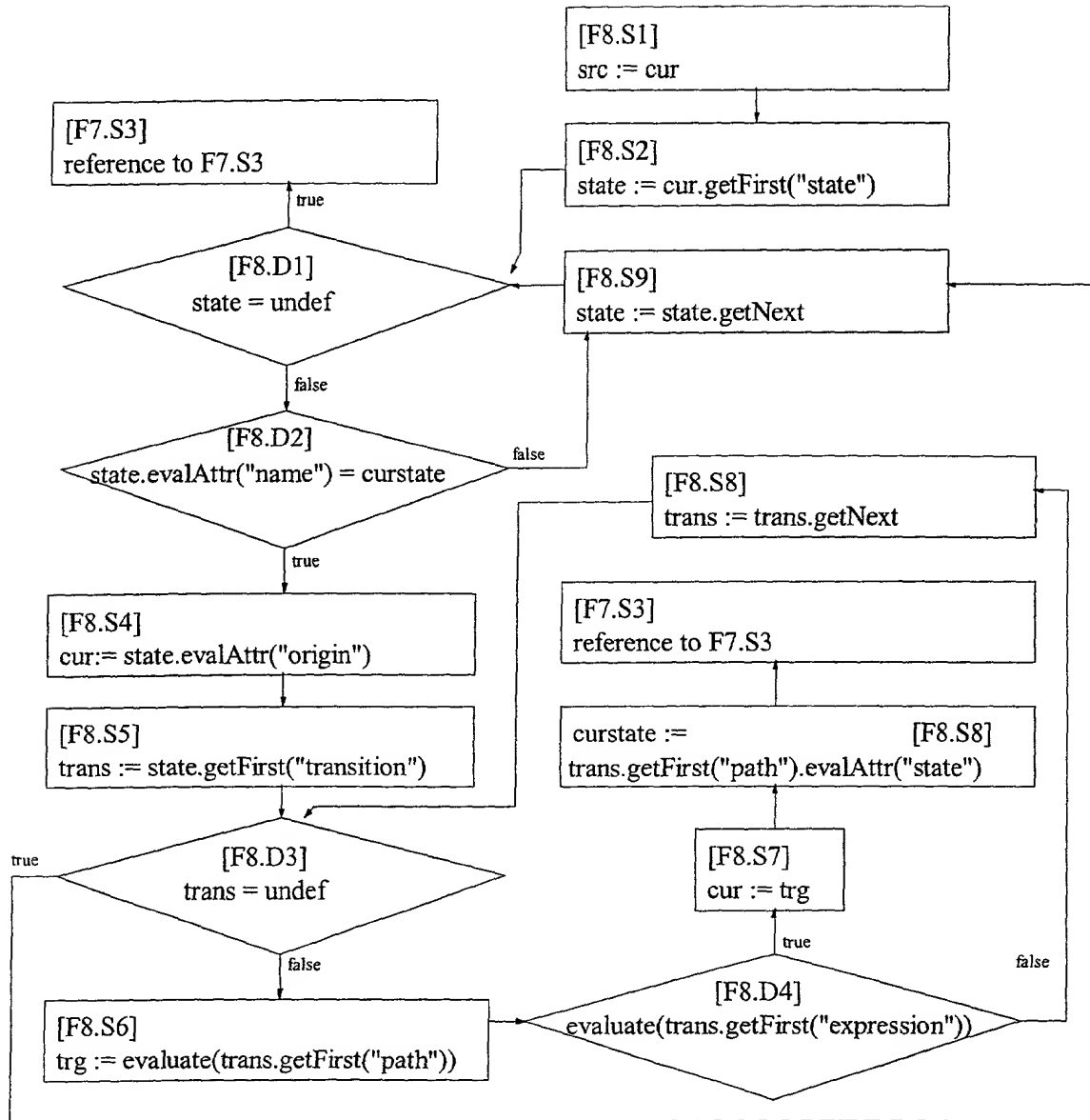


Fig. 15

```

modulequery.xml:
<module name="query">
  <state name="initial">
    <transition> <path state="ask"/> </transition>
  </state>
  <state name="ask">
    <action>
      <external name="print" language="shell">
        <expression> <attreval name="question"/> </expression>
      </external>
    </action>
    <action>
      <setattr name="answer">
        <expression> <self/> </expression>
        <expression>
          <external name="get(stdin)" language="shell"> </external>
        </expression>
      </setattr>
    </action>
    <transition>
      <expression>
        <apply op="=">
          <expression> <attreval name="answer"/> </expression>
          <expression> <constant value="yes"/> </expression>
        </apply>
      </expression>
      <path> <component name="reaction" number="1"/> </path>
    </transition>
    <transition>
      <expression>
        <apply op="=">
          <expression> <attreval name="answer"/> </expression>
          <expression> <constant value="no"/> </expression>
        </apply>
      </expression>
      <path> <component name="reaction" number="2"/> </path>
    </transition>
  </state>
</module>
<module name="action" number="1">
  <state name="terminal">
    <transition> <path> <component name="query"> </path> </transition>
  </state>
</module>
<module name="action" number="2">
  <state name="terminal">
    <transition> <path> <component name="query"> </path> </transition>
  </state>
</module>
<module name="query">
  <state name="terminal">
    <transition> <path name="terminal"/> </transition>
  </state>
</module>
</module>

```

**Fig. 16**

```

module reaction.xml:
<module name="reaction">
  <state name="initial">
    <transition>
      <expression>
        <apply op="!=">
          <expression> <getfirst name="setpoints"/> </expression>
          <expression> <constant value="undef"> </expression>
        </apply>
      </expression>
      <path> <component name="setpoints"/> </path>
    </transition>
    <transition>
      <expression>
        <apply op="!=">
          <expression> <getfirst name="query"/> </expression>
          <expression> <constant value="undef"> </expression>
        </apply>
      </expression>
      <path> <component name="query"/> </path>
    </transition>
  </state>
  <module name="setpoints">
    <state name="terminal"> <transition> <path state="terminal"/> </transition> </state>
  </module>
  <module name="query">
    <state name="terminal"> <transition> <path state="terminal"/> </transition> </state>
  </module>
</module>

```

**Fig. 17**

```

module setpoints.xml:
<module name="setpoints">
  <state name="initial">
    <transition> <path state="set"/> </transition>
  </state>
  <state name="set">
    <action>
      <setattr name="PointCounter">
        <expression> <getroot/> </expression>
        <expression>
          <apply op="+">
            <expression>
              <getattr name="PointCounter">
                <expression> <getroot/> </expression>
              </getattr>
            </expression>
            <expression> <getattr name="points"/> </expression>
          </apply>
        </expression>
      </setattr>
    </action>
    <transition> <path state="terminal"/> </transition>
  </state>
</module>

```

**Fig. 18**

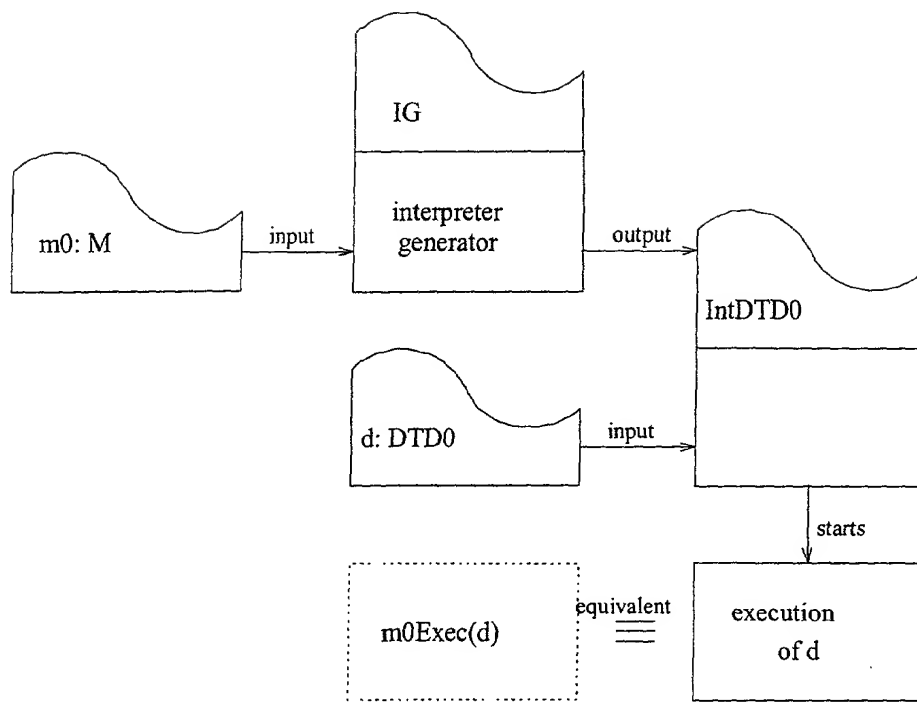


Fig. 19a

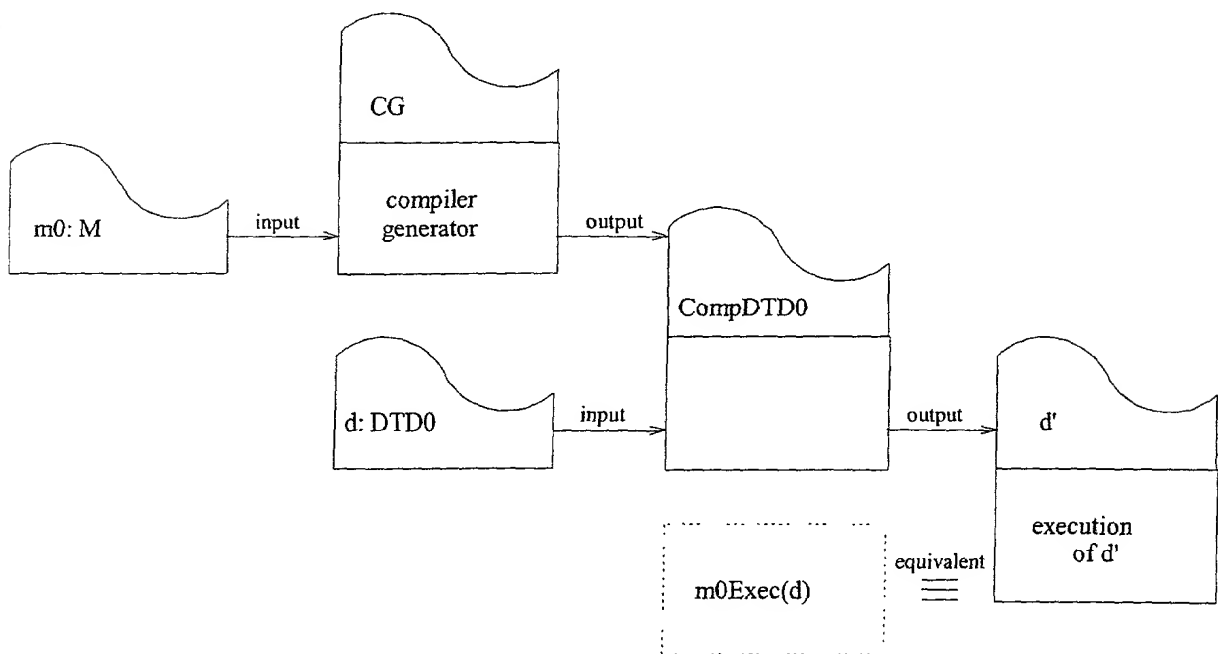
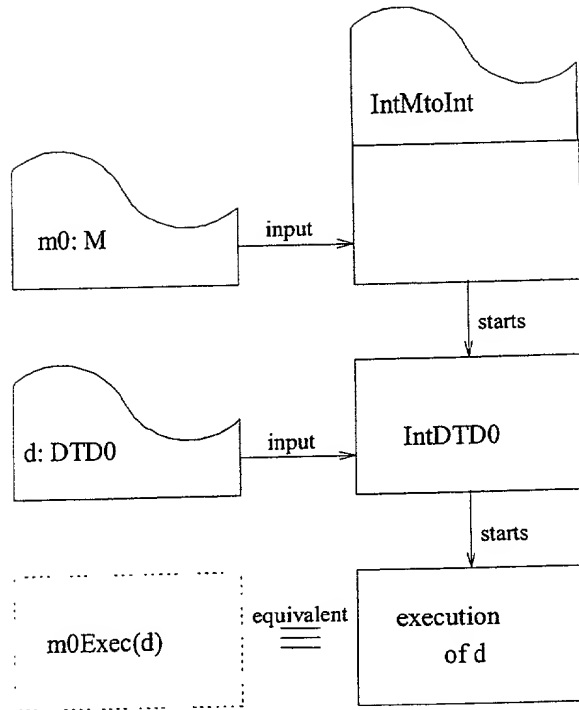
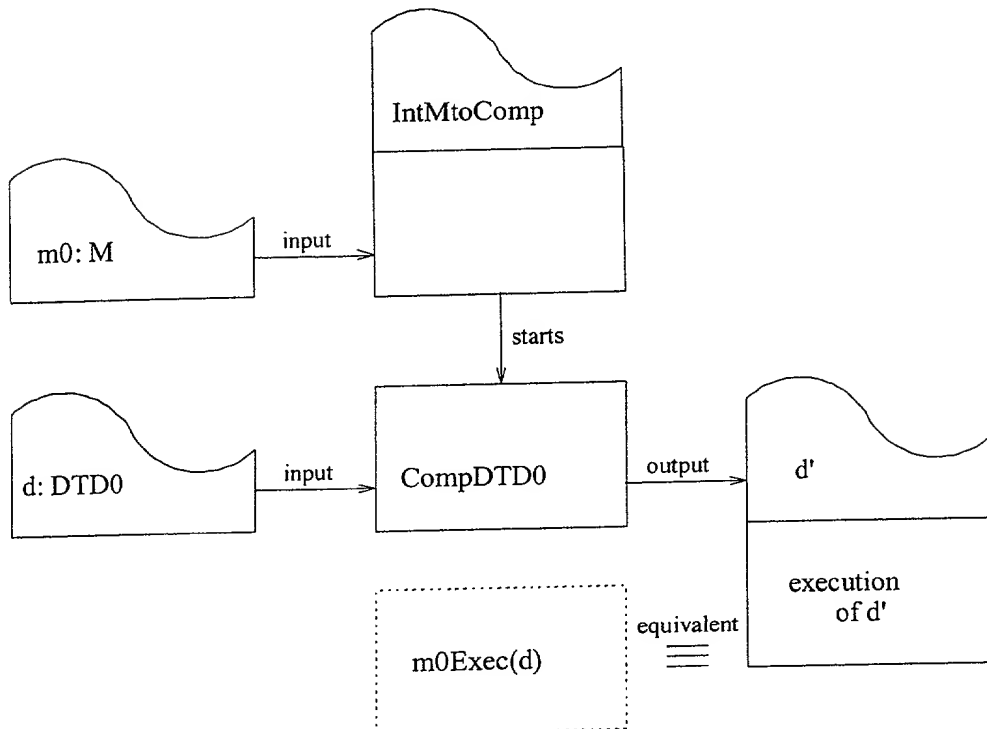


Fig. 19b

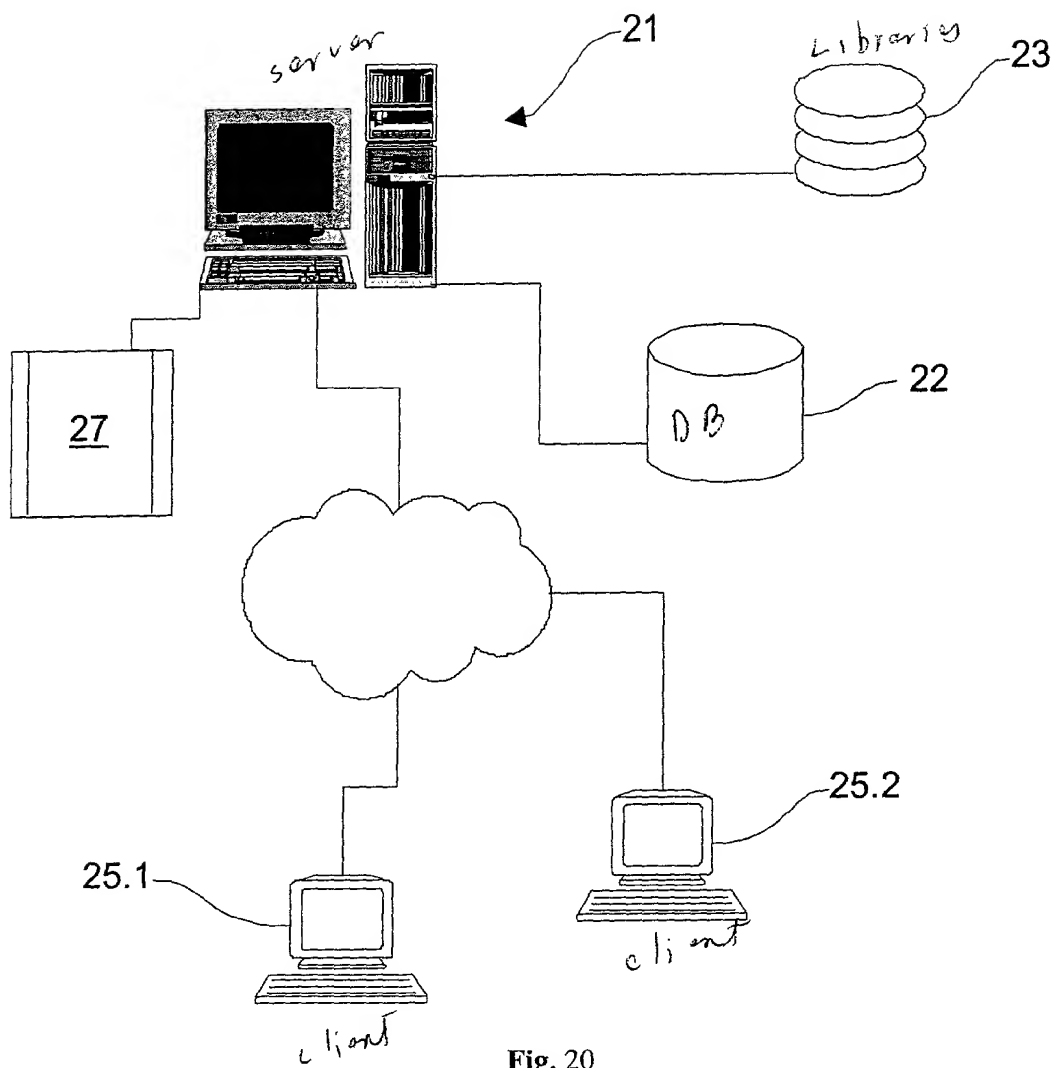


**Fig. 19c**



**Fig. 19d**





**Fig. 20**

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